

Amendments to the Claims

Please cancel claims 97-100. Claims 1, 23, 33-36, 85, and 92 have been amended. This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently amended) A plasmid comprising:

a primer sequence of ~~at least~~ from about 10 nucleotides to about 50 nucleotides or more incorporated into the plasmid, wherein the primer sequence is complementary ~~anneals specifically during a polymerase reaction~~ to at least a first portion of a polypeptide encoding portion of a nucleic acid; and

a collar sequence of ~~at least~~ from about 10 nucleotides to about 50 nucleotides or more incorporated into the plasmid, wherein the collar sequence is complementary ~~anneals specifically during said polymerase reaction~~ to at least a second portion of said polypeptide encoding portion of a nucleic acid, said second portion being separated by at least 20 nucleotides from said first portion ~~and further wherein said at least 20 nucleotides do not anneal specifically to said primer sequence or said collar sequence;~~

wherein the primer sequence and the collar sequence adjoin one another to create at least one restriction site.

2. (Previously presented) A plasmid as in claim 1 wherein said nucleic acid is a first strand cDNA.

3. (Previously presented) A plasmid as in claim 1 wherein said nucleic acid is mRNA.

4. (Previously presented) A plasmid as in claim 3 wherein said mRNA encodes at least a portion of an antibody.

5. (Previously presented) A plasmid as in claim 1 wherein said first portion is 3' of said second portion of the polypeptide encoding portion of a nucleic acid.

6. (Original) A host cell transformed with a plasmid of claim 1.

7-22. (Cancelled)

23. (Currently amended) A plasmid comprising:

a downstream primer sequence of ~~at least~~ from about 10 nucleotides to about 50 nucleotides or more incorporated into the plasmid, wherein the downstream primer sequence is complementary ~~anneals specifically during a polymerase reaction~~ to at least a first portion of an antibody encoding portion of mRNA;

an upstream collar sequence of ~~at least~~ from about 10 nucleotides to about 50 nucleotides or more incorporated into the plasmid, wherein the upstream collar sequence is complementary ~~anneals specifically during said polymerase reaction~~ to at least a second portion of said antibody encoding portion of mRNA; and

at least one restriction site located between the downstream primer sequence and upstream collar sequence incorporated into the plasmid.

24. (Previously presented) A plasmid as in claim 23 wherein said second portion encodes a framework region of an antibody.

25. (Cancelled)

26. (Previously presented) A plasmid as in claim 24 wherein said second portion encodes a framework region of a light chain of an antibody.

27. (Previously presented) A plasmid as in claim 24 wherein said second portion encodes a framework region of a heavy chain of an antibody.

28. (Previously presented) A plasmid as in claim 23 wherein said first portion encodes a constant region of an antibody.
29. (Previously presented) A plasmid as in claim 28 wherein said first portion encodes a constant region of a light chain of an antibody.
30. (Previously presented) A plasmid as in claim 23 wherein said first portion encodes a framework two (FR2), framework three (FR3) or framework four (FR4) region of a light chain of an antibody.
31. (Previously presented) A plasmid as in claim 28 wherein said first portion encodes a constant region of a heavy chain of an antibody.
32. (Previously presented) A plasmid as in claim 23 wherein said first portion encodes a framework two (FR2), framework three (FR3) or framework four (FR4) region of a heavy chain of an antibody.
33. (Currently amended) A plasmid comprising:
- a downstream primer sequence comprising SEQ. ID. NO: 4 incorporated into the plasmid, wherein the downstream primer sequence is complementary ~~anneals specifically during a polymerase reaction~~ to a first portion of mRNA encoding at least a portion of an antibody;
 - an upstream collar sequence incorporated into the plasmid, wherein the upstream collar sequence is complementary ~~anneals specifically during said polymerase reaction~~ to a second portion of the mRNA encoding at least a portion of an antibody; and
 - at least one restriction site located between the downstream primer sequence and upstream collar sequence incorporated into the plasmid.
34. (Currently amended) A plasmid comprising:

a downstream primer sequence comprising SEQ. ID. NO: 8 incorporated into the plasmid, wherein the downstream primer sequence is complementary ~~anneals specifically during a polymerase reaction~~ to a first portion of mRNA encoding at least a portion of an antibody;

an upstream collar sequence incorporated into the plasmid, wherein the upstream collar sequence is complementary ~~anneals specifically during said polymerase reaction~~ to a second portion of the mRNA encoding at least a portion of an antibody; and

at least one restriction site located between the downstream primer sequence and upstream collar sequence incorporated into the plasmid.

35. (Currently amended) A plasmid comprising:

a downstream primer sequence incorporated into the plasmid, wherein the downstream primer sequence is complementary ~~anneals specifically during a polymerase reaction~~ to a first portion of mRNA encoding at least a portion of an antibody;

an upstream collar sequence comprising SEQ. ID. NO: 3 incorporated into the plasmid, wherein the upstream collar sequence is complementary ~~anneals specifically during said polymerase reaction~~ to a second portion of the mRNA encoding at least a portion of an antibody; and

at least one restriction site located between the downstream primer sequence and upstream collar sequence incorporated into the plasmid.

36. (Currently amended) A plasmid comprising:

a downstream primer sequence incorporated into the plasmid, wherein the downstream primer sequence is complementary ~~anneals specifically during a polymerase reaction~~ to a first portion of mRNA encoding at least a portion of an antibody;

an upstream collar sequence comprising SEQ. ID. NO: 7 incorporated into the plasmid, wherein the upstream collar sequence is complementary ~~anneals specifically during said polymerase reaction~~ to a second portion of the mRNA encoding at least a portion of an antibody; and

at least one restriction site located between the downstream primer sequence and upstream collar sequence incorporated into the plasmid.

37. (Original) A host cell transformed with a plasmid of claim 23.

38-72. (Cancelled)

73. (Previously presented) A plasmid as in claim 1 wherein two restriction sites that are the same or different are located between the downstream primer sequence and the upstream collar sequence.

74. (Previously presented) A plasmid as in claim 23 wherein two restriction sites that are the same or different are located between the downstream primer sequence and the upstream collar sequence.

75-84. (Cancelled)

85. (Currently amended) A plasmid comprising:

a downstream primer sequence of ~~at least~~ from about 10 nucleotides to about 50 nucleotides or more incorporated into the plasmid, wherein the downstream primer sequence is complementary ~~anneals specifically during a polymerase reaction~~ to at least a first portion of a coding sequence of mRNA, said first portion encoding at least a portion of a first framework region associated with an antibody;

an upstream collar sequence of ~~at least~~ from about 10 nucleotides to about 50 nucleotides or more incorporated into the plasmid, wherein the upstream collar sequence is complementary ~~anneals specifically during a polymerase reaction~~ to at least a second portion of the coding sequence of mRNA, said second portion encoding at least a portion of a second framework region associated with the antibody; and

at least one restriction site located between the downstream primer sequence and upstream collar sequence incorporated into the plasmid.

86. (Previously presented) A plasmid as in claim 85 wherein said second portion encodes at least a portion of a framework region of a light chain of an antibody.

87. (Previously presented) A plasmid as in claim 85 wherein said second portion encodes at least a portion of a framework region of a heavy chain of an antibody.

88. (Previously presented) A plasmid as in claim 85 wherein said first portion encodes a framework two (FR2), framework three (FR3) or framework four (FR4) region of a light chain of an antibody.

89. (Previously presented) A plasmid as in claim 85 wherein said first portion encodes a framework two (FR2), framework three (FR3) or framework four (FR4) region of a heavy chain of an antibody.

90. (Previously presented) A plasmid as in claim 85 wherein two restriction sites that are the same or different are located between the downstream primer sequence and the upstream collar sequence.

91. (Previously presented) A host cell transformed with a plasmid of claim 85.

92. (Currently amended) A plasmid comprising:

a downstream primer sequence of at least from about 10 nucleotides to about 50 nucleotides or more incorporated into the plasmid, wherein the downstream primer sequence is complementary ~~anneals specifically during a polymerase reaction~~ to at least a first portion of a coding sequence of mRNA, said first portion encoding at least a portion of a constant region associated with an antibody;

an upstream collar sequence of ~~at least~~ from about 10 nucleotides to about 50 nucleotides or more incorporated into the plasmid, wherein the upstream collar sequence is complementary ~~anneals specifically during said polymerase reaction~~ to at least a second portion of the coding sequence of mRNA, said second portion encoding at least a portion of a framework region associated with the antibody; and

at least one restriction site located between the downstream primer sequence and upstream collar sequence incorporated into the plasmid.

93. (Previously presented) A plasmid as in claim 92 wherein said constant region is a constant region of a light chain of an antibody.

94. (Previously presented) A plasmid as in claim 92 wherein said constant region is a constant region of a heavy chain of an antibody.

95. (Previously presented) A plasmid as in claim 92 wherein two restriction sites that are the same or different are located between the downstream primer sequence and the upstream collar sequence.

96. (Previously presented) A host cell transformed with a plasmid of claim 92.

97-100. (Cancelled)

101. (Previously presented) The plasmid of claim 1 wherein said primer sequence is at least 15 nucleotides and said collar sequence is at least 15 nucleotides.

102. (Previously presented) The plasmid of claim 23 wherein said primer sequence is at least 15 nucleotides and said collar sequence is at least 15 nucleotides.

103. (Previously presented) The plasmid of claim 85 wherein said primer sequence is at least 15 nucleotides and said collar sequence is at least 15 nucleotides.

104. (Previously presented) The plasmid of claim 92 wherein said primer sequence is at least 15 nucleotides and said collar sequence is at least 15 nucleotides.